1: Pelzer S-5 (1940-1941) 1945 AL1 Southeast Asia AL1

Chapter I

FROM HUNTING AND GATHERING TO AGRICULTURE

Hunting and Gathering

In Southeastern Asia today there are peoples of different cultural levels carrying on some of the major economies that man has developed in the course of time. The first people to invade the tropical forest regions around the South China Sea were alithic, or prepalaeolithic, food gatherers,[1] who obtained their food by collecting edible wild plants and by hunting and fishing. Today geographically separated peoples are still living in a prepalaeolithic or palaeolithic food-gathering and hunting stage.[2] In Southeastern Asia they are represented by the Semang of the Malay Peninsula, the Andaman Islanders, and the Aeta of the Philippines—all of whom are Negritos, or dwarfed Negroids—the Kubu of Sumatra, the Sakai of the Malay Peninsula, the Toala of Celebes,[3] and the Punan of Borneo.[4]

The degree to which collecting, hunting, or fishing contributes to the food supply varies with the season; it also varies with different peoples, depending upon the resources of the region, the type of equipment the people may possess, and the skills they may have acquired. Food-gathering and hunting peoples have a division of labor under which the men hunt while the women and children gather vegetable matter and catch insects and small animals. The men may lend a helping hand, however, in digging up some of the very deep-growing yams. Men will also participate in the picking of fruits, especially when it is necessary to climb tall trees. The food gatherers and hunters of Southeastern Asia are nomadic in the sense that they do not remain long in one place. However, they do not wander aimlessly through the jungle. Each group has its definite territory—among

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Note: The titles of the works here cited in footnotes have been abbreviated, whenever possible. The full titles may be found in the Bibliography, p. 269 ff.

[1] Nippold (Rassen- und Kulturgeschichte der Negrito-Völker, 1936, pp. 253–255 and 398–400) considers the alithic wood culture of the Negritos of Southeastern Asia to be older than palaeolithic culture. These people use wood rather than stone as raw material for their tools. Because of the perishable nature of wood, archaeologists and prehistorians have not yet been able, so far as I know, to go farther back than the palaeolithic age and therefore have not been able to confirm the hypothesis of an alithic age. Menghin (Weltgeschichte der Steinzeit, 1931, p. 91) believes that, from an archaeological point of view, an alithic wood culture may be regarded only as a possibility, but Kern (Die Anfänge der Weltgeschichte, 1933, p. 35), who compared pygmy culture with palaeolithic cultures, comes to the conclusion that alithic wood cultures probably preceded palaeolithic culture.

[2] By divesting the word "palaeolithic" of its specific chronological connotation the term may be used for present-day peoples who have a food-gathering and hunting culture.

[3] The racial affinities of the Kubu, the Sakai, and the Toala are not clear; by some they are called Veddoids, by others, Australoids.

[4] They are considered to be Proto-Malays.

1: Belzer S-5 (1940-1941) 1945 AL1 Southeast Asia AL1

222 [114] 241 462

During untold centuries in which they collected plant matter, women acquired an intimate knowledge of vegetable life. Eduard Hahn and others have therefore reasoned that women were the inventors of the cultivation of plants and hence were the first food producers. Hahn has given the name *Hackbau* (hoe culture or hoe tillage) to primitive cultivation, and maintains that the hoe is woman's implement; he draws a sharp distinction between Hackbau and more advanced cultivation, which he calls *Pflugbau* (plow culture or plow tillage) and ascribes to men.[9] It is indeed true that men generally farm with plows and that many examples may be cited of women using hoes; nevertheless, there are so many instances of male primitive cultivators employing hoes or similar instruments that Hahn's classification should be modified. While there seems to be no reason for abandoning his theory of the invention of plant cultivation by women, the classification of cultivation by tools, such as the hoe and the plow, ascribed to one sex or the other, is unsatisfactory. For, in spite of the fact that the collection of vegetable matter is almost exclusively the woman's task in the gathering economy, among primitive cultivators men either assist women in the cultivation of plants or entirely take over this activity whenever hunting or fishing become less important than soil tillage. Furthermore, many primitive cultivators do not use the hoe, but continue to employ the digging stick, characteristically used by the food-gathering women. From Formosa southward throughout the Malay Archipelago, as well as on the mainland of Southeastern Asia, the digging stick, also known as the dibble stick or planting stick, is frequently used by the primitive cultivator. On the other hand, there are advanced cultivators who till their land intensively with hoes; they use manure, rotate their crops, terrace fields that lie on slopes, and practice irrigation, yet they do not use plows drawn by draft animals (however, in some instances they have livestock). In other words, advanced agriculture does not depend upon the animal-drawn plow nor does primitive agriculture depend upon the hoe.

[101] [105]

A more fundamental distinction between primitive and advanced agriculture may be made in terms of land use rather than of tools. Primitive cultivators, with the possible exception of those living in arid regions, raise one or two crops on a given plot of land, then abandon the plot and make a new field, preferably in the forest, so that the old plot lies fallow sometimes for many years and may itself revert to forest; in short, primitive cultivators shift the place of their agricultural activities with regularity. The crop land consists of small patches scattered throughout the forest; these patches are extremely ragged in appearance and do not look at all like fields. A primitive cultivator would never think of removing stumps and fallen trees; instead, he deliberately raises his crop among them. This kind of cultivation is best described as shifting-field, or shift-

241 311

[9] Hahn: Das Alter der wirtschaftlichen Kultur, 1905; idem: Die Entstehung der Pflugkultur, 1909; idem: Von der Hacke zum Pflug, 1914; Kolff: "Hahn's hypothese," 1926, pp. 884–907.